

BWP AQ 23 Prescribed or Alternative Plan BWP AQ 24 Physical or Operational Plan Instructions and Supporting Materials

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Introduction

DEP *Permit Applications*, as well as *Instructions & Support Materials*, are available for download from the DEP Web site at www.state.ma.us/dep in two file formats: Microsoft Word and Adobe Acrobat PDF . Either format allows documents to be printed.

Instructions & Support Materials files in Microsoft Word format contain a series of documents that provide guidance on how to prepare a permit application. Although we recommend that you print out the entire package, you may choose to print specific documents by selecting the appropriate page numbers for printing.

Permit Applications in Microsoft Word format must be downloaded separately. Users with Microsoft Word 97 or later may complete these forms electronically.

Permitting packages in Adobe Acrobat PDF format combine *Permit Applications* and *Instructions & Support Materials* in a single document. Adobe Acrobat PDF files may only be viewed and printed without alteration. *Permit Applications* in this format may not be completed electronically.



BWP AQ 23 Prescribed or Alternative Plan BWP AQ 24 Physical or Operational Plan Permit Fact Sheet

1. What is the purpose of the Emission Control Plan (ECP)?

The MA DEP regulation 310 CMR 7.28 implementing the NOx Allowance Trading Program requires all affected units to determine NOx mass emissions from certified systems during the ozone season (May – September), beginning on May 1, 2002. To ensure that the NOx mass emissions are determined on a consistent basis, 310 CMR 7.28 requires submission of a monitoring plan, and, for most measurement methodologies, certification test data for NOx Allowance Trading Program certification. The MA DEP, in consultation with the US EPA, is responsible for approving the certification testing of all continuous emissions monitoring systems (CEMS) and fuel flow meter systems, as well as any alternative monitoring systems.

2. Who must apply?

All facilities subject to 310 CMR 7.28 must apply for the Emission Control Plan.

3. Which of the two plan categories should I apply under?

The ECP categories are AQ 23 and AQ 24. AQ 23 is intended for a facility with units that follow a 40 CFR Part 75 prescribed monitoring system methodology or for which an alternative monitoring system under 310 CMR 7.28(11)(a)3 is proposed. A proposed alternative monitoring system may involve a system that uses an indirect monitoring approach such as parametric monitoring to quantify emission values or direct monitoring which measures emissions using probes or other devices. It may entail a Part 75 subpart E procedural demonstration or a comparable demonstration that ensures equivalent mass emissions measurement precision and data reliability. A proposed heat input monitoring system may also be considered an alternative system when it entails a methodology and/or procedures for fuel sampling, fuel usage measurements, and performance specifications that are not prescribed in the EPA Monitoring regulations. AQ 24 is intended for a facility that makes physical or operational modifications to combustion equipment or plans to install NOx controls.

4. How does the two-phase structure of the plan work?

DEP has developed a two-phase ECP structure. The two-phase structure is designed to provide NOx Allowance facilities an organized approach to prepare emission control plans. Phase I of the application process is the submittal of a monitoring plan. This phase of the application process will require detailed information on the monitoring systems. Submittal of the monitoring plan is due by November 1, 2001. Phase II of the application process includes submittal of the certification test data for the monitoring system. Note: See Question 8 below for Phase II deadlines.

5. How do I submit a complete plan application?

For a complete Phase I application, you must submit the DEP Transmittal form, the BWP AQ 23 and 24 Application form, and all applicable additional requirements stated in Section C of the Application form. As there is no application fee for 310 CMR 7.28, do not check a box in section F of the DEP Transmittal form. As required by 310 CMR 7.28(11) and 40 CFR 75.62, the monitoring plan must include the information specified in 40 CFR 75.53. All hardcopy portions of the Phase I submittal should be sent according to the information provided in Question 10 below. The electronic copy of the monitoring plan should be submitted to DEP via e-mail (Sharon.Weber@state.ma.us for NERO and SERO facilities, Sue.Ann.Richardson@state.ma.us for CERO and WERO facilities) and also to EPA via e-mail at MP-Reg1@epa.gov. Completion of Phase II will require the submittal of certification test results in accordance with Questions 7 and 8 below. You do not need to submit information for Phase II with the Phase I application, however, if you have already completed



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testing under 310 CMR 7.28 at the time of Phase I submittal, you may submit the requirements for Phase I and Phase II together.

6. How do I complete the electronic monitoring plan?

The electronic monitoring plan must be completed in accordance with EPA's most current Electronic Data Reporting (EDR) reporting instructions. At the time this text was created, EPA's Revised EDR Version 2.1 Reporting Instructions, dated 1/24/2001, were the most recent. The plan can be created using EPA's Monitoring Data Checking (MDC) Software. This software can also be used to determine errors in the plan using the Evaluation Report option. This allows the applicant to make corrections to the monitoring plan before it is submitted. EPA's current EDR reporting instructions and the MDC Software can be found on EPA's Clean Air Markets Division (CAMD) web site, www.epa.gov/airmarkets.

7. What other information should be considered when applying?

All units must submit Net Output Monitoring documentation with their Phase I application. For an existing Acid Rain unit, this should be the only item submitted with the ECP application. The requirements for Net Output Monitoring were distributed as Attachment A of a DEP letter, dated November 20, 2000, that went out to all facilities via e-mail. If you need a copy of this Attachment please visit the DEP web site listed below. For facilities that intend to petition for a variance from standard monitoring, approval of the ECP cannot be completed until the EPA and DEP, in consultation, approve the petition. Therefore, petitions should be submitted to the EPA and DEP as soon as possible. The requirements for the Phase II application include gas/oil meter certification documentation and certification test results that meet the requirements of 40 CFR Part 75. Certification test notification, protocol and application requirements can be found on the DEP web site at www.state.ma.us/dep/bwp/daqc/daqcpubs.htm#nox.

8. What are the application fees and deadlines?

There are no fees associated with these applications. The deadline for Phase I submittals for existing budget units is November 1, 2001. Please note that all data from May 1, 2001 on must be reported in EDR version 2.1. New units must submit a Phase I application at least 18 months before the later of May 1, 2003 or the date on which the unit commences operation. For units that commence operation before January 1, 2002, all Phase II certification tests must be completed by May 1, 2002. New budget units which commence operation on or after January 1, 2002 must complete all Phase II tests by the later of the following dates: May 1, 2002 or, the earlier of 180 days after the date the unit commences operation or 90 days after the date the unit commences commercial operation. The results of the Phase II tests must be submitted within 45 days of the date of completion of the last test. Please note that a RATA that meets the standards of Part 75 must be completed on all subject units by May 1, 2002. Ongoing quality assurance RATA results must be submitted within 45 days of completion of the RATA in accordance with 40 CFR Part 75.73(d)(4).

9. What are the timelines?

Neither BWP AQ23 nor BWP AQ24 are subject to 310 CMR 4.00 and therefore are not subject to fees and timelines established under that regulation.



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10. What is the Primary Permit Location? What is the Reserve Copy Location?

Primary Permit Location: Reserve Copy Location:

Department of Environmental Protection
Air Quality Section
____* Regional Office

*See the list of address for DEP regional offices and the communities they serve

Department of Environmental Protection Air Assessment Branch Source Monitoring Section 37 Shattuck Street Lawrence, MA 01843-1398

11. What is the annual compliance fee?

There is no annual compliance fee specifically for this program.

12. What are the regulations that apply to these permits? Where can I get copies?

These regulations include, but are not limited to:

Massachusetts Air Quality Regulations, 310 CMR 7.00.

These may be purchased at:

State Bookstore (in State House) Room 116 Boston, MA 02133 617-727-2834 State House West Bookstore 436 Dwight Street, Room 102 Springfield, MA 01103 413-784-1376

The unofficial version of these regulations may also be obtained through the Department web site.

Federal Regulations:

Continuous Emission Monitoring Regulations, 40 CFR Part 75.

These may be purchased at:

U.S. Government Bookstore Thomas P. O'Neill Building Room 169 10 Causeway Street Boston, MA 02222 617-720-4180

The unofficial version of these regulations may be obtained through the federal government web site.



BWP AQ 23 Prescribed or Alternative Plan BWP AQ 24 Physical or Operational Plan Application Completeness Checklist

		The DEP Transmittal Form has been completed.
		All questions on the Application Form have been answered.
		The Authorized Account Representative (AAR), or the Alternate AAR, has signed Section B.
		All hardcopy information required in Section C has been included in the application package.
		Three copies have been made of all of the required hardcopy application materials.
		The electronic portion of the monitoring plan has been completed in accordance with EPA's current EDR porting instructions. The Evaluation Report option of EPA's MDC software has been used to check the pla errors and any necessary corrections have been made before submittal.
	□ info	Optional: The Phase II Certification Test Results may be submitted with the Phase I application ormation, if desired.
То	sub	mit the application package:
	(NE	Submit the electronic portion of the monitoring plan to DEP by e-mail to: Sharon.Weber@state.ma.us ERO and SERO sites) or Sue.Ann.Richardson@state.ma.us (CERO and WERO sites), and also to the A by e-mail at MP-Reg1@epa.gov.
	□ witl	Submit one copy of the Transmittal Form as instructed but without a check. There is no fee associated h this application. Do not check any of the boxes in Section F of the form.
		Submit all hardcopy application materials along with one copy of the Transmittal Form to:
		Department of Environmental Protection* Regional Office Air Quality Control
	*Se	ee "DEP Addresses and Phone Numbers" for the addresses of DEP Regional Offices.
		Submit a copy of all hardcopy application materials to:
		Department of Environmental Protection Air Assessment Branch - Source Monitoring 37 Shattuck Street Lawrence, MA 01843-1398
		Submit a copy of all hardcopy application materials to:
		US EPA Region 1 1 Congress Street Suite 1100 (CAP) Boston, MA 02114-2023



Massachusetts Department of Environmental Protection

Addresses and Phone Numbers

DEP Boston One Winter Street Boston, MA 02108 Telephone: (617) 292-5500 Fax: (617) 556-1049 TDD: (617) 574-6868

William X. Wall Experiment Station 37 Shattuck Street Lawrence, MA 01843 Fax: (978) 688-0352 Division of Environmental Analysis

Telephone: (978) 682-5237 Air Quality Surveillance Telephone: (978) 975-1138

Office of Watershed Management 627 Main Street Worcester, MA 01608 Telephone: (508) 792-7470

Fax: (508) 839-3469

Millbury Training Center Route 20 Millbury, MA 01527 Telephone: (508) 368-5600 Fax: (508) 755-9253

Residuals Sludge Management Telephone: (508) 368-5606 WWT Operator Certification Telephone: (508) 368-5698

DEP Western Region 436 Dwight Street Suite 402 Springfield, MA 01103

Phone: (413) 784-1100 Fax: (413) 784-1149



Adams Agawam Alford Amherst Ashfield Becket Belchertown Bernardston Blandford Brimfield Buckland Charlemont Cheshire Chester Chesterfield Chicopee Clarksburg

Colrain Conway Cummington Dalton Deerfield **Fasthampton** East Longmeadow Egremon Frvina Florida Gill Goshen Granby Granville Great Barrington Greenfield

Holland Holyoke Huntington Lanesborough Lee Lenox Leverett Leyden Longmeadow Ludlow Middlefield

Hampden

Hancock

Hatfield

Hawley

Hinsdale

Heath

Monroe Montague Monterey Montgomery Monson Mount Washington New Ashford New Marlborough New Salem North Adams Northampton Northfield Orange Otis Palmer Pelham Peru

Pittsfield Plainfield Richmond Rowe Russell Sandisfield Savoy Sheffield Shelburne Shutesbury Southampton South Hadley Southwick Springfield Stockbridge Sunderland Tolland

Tyringham Wales Ware Warwick Washington Wendell Westfield Westhampton West Springfield West Stockbridge Whately Wilbraham Williamsburg Williamstown Windsor Worthington

DEP Central Region 627 Main Street Worcester, MA 01608 Phone: (508) 792-7650 Fax: (508) 792-7621 TDD: (508) 767-2788



Acton Ashburnham Ashby Athol Auburn Ayer Barre Bellingham Berlin Blackstone Bolton Boxborough Boylston Brookfield

Charlton Clinton Douglas Dudley Dunstable East Brookfield Fitchburg Gardner Grafton Groton Harvard Hardwick Holden Hopedale

Hadley

Hopkinton Hubbardston Hudson Holliston Lancaster Leicester Leominster Littleton Lunenburg Marlborough Maynard Medway Mendor

Millbury Millville New Braintree Northborough Northbridge North Brookfield Oakham Oxford Paxton Pepperell Petersham Phillipston Princeton Royalston

Rutland Shirley Shrewsbury Southborough Southbridge Spencer Sterling Stow Sturbridge Sutton Templeton Townsend Tyngsborough Upton Uxbridge Warren Webster Westborough West Boylston West Brookfield Westford Westminster Winchendon Worcester

DEP Southeast Region 20 Riverside Drive Lakeville, MA 02347 Phone: (508) 946-2700 Fax: (508) 947-6557



Abington Acushnet Attleboro Avon Barnstable Berkley Bourne Brewster Bridgewater Brockton Carver Chatham Chilmark

Dartmouth Dennis Dighton Duxbury Fastham East Bridgewater Easton Edgartown Fairhaven Fall River Falmouth Foxborough Franklin

Freetown Gay Head Gosnold Halifax Hanover Hanson Harwich Kingston Lakeville Mansfield Marion Marshfield Mashpee

Mattapoisett Middleborough Nantucket New Bedford North Attleborough Norton Norwell Oak Bluffs Orleans Pembroke Plainville Plymouth Plympton

Provincetown Raynham Rehoboth Rochester Rockland Sandwich Scituate Seekonk Sharon Somerset Stoughton Taunton

Tisbury Truro Wareham Wellfleet West Bridgewater Westport West Tisbury Whitman Wrentham Yarmouth

DEP Northeast Region 205 Lowell Street Wilmington, MA 01887 Phone: (978) 661-7600 Fax: (978) 661-7615 TDD: (978) 661-7679



Amesbury Andover Arlington Ashland Bedford Belmont Beverly Billerica Boston Boxford Braintree Brookline Burlington Cambridge Canton

Carlisle

Chelmsford Chelsea Cohasset Concord Danvers Dedham Dover Dracut Essex Everett Framingham Georgetown Gloucester Groveland Hamilton Haverhil

Hingham Holbrook Hull Ipswich Lawrence Lexington Lincoln Lowell Lynn Lynnfield Malden Manchester-By-The-Sea Marblehead Medfield

Medford Melrose

Merrimac Methuen Middleton Millis Milton Nahant Natick Needham Newbury Newburyport Newton Norfolk North Andover North Reading Norwood Peabody

Quincy Randolph Reading Revere Rockport Rowley Salem Salisbury Saugus Sherborn Somerville Stoneham Sudbury Swampscott Tewksbury Topsfield

Wakefield Walpole Waltham Watertown Wayland Wellesley Wenham West Newbury Weston Westwood Weymouth Wilmington Winchester Woburn



Important:

When filling out forms on the computer, use only the tab key

to move your cursor - do not

use the return

Massachusetts Department of Environmental Protection Bureau of Waste Prevention – Air Quality – NOx Allowance Trading Program

BWP AQ 23 - Prescribed or Alternative Methodologies BWP AQ 24 - Physical or Operational Plans

Transmittal Number
Facility ID# (if known)

Emissions Control Plan

and complete. I am aware that there are

significant penalties for submitting false information, including possible fines and

imprisonment."

A. Facility Information Facility 1. Name Street Address State Zip Code Facility Contact Person Name Title Telephone Number **Email Address** 3. Facility Owner Owner or Corporation Name Telephone Number **Email Address** BWP AQ 23 4. Which Permit Category are you applying for? BWP AQ 24 B. Certification This form must be signed by the Authorized Account Representative or the Alternative Authorized Account Representative for the facility. "I certify that I have personally examined and am familiar with the information contained in this Name of AAR or AAAR document and all attachments and that, based on my inquiry of those individuals immediately Signature responsible for obtaining the information, I believe that the information is true, accurate,

Date

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BWP AQ 23 - Prescribed or Alternative Methodologies BWP AQ 24 - Physical or Operational P

Transmittal Number	_
Facility ID# (if known)	_

Plans Emissions Control Plan				
C.	Additional Items			
	In addition to completion of this form, the following items must be included, where applicable, to satisfy the requirements of a complete application.			
	All BWP AQ 23 and 24 submittals must include:			
	☐ Electronic Portion of the Monitoring Plan			
	This can be created using EPA's Monitoring Data Checking Software. It must be completed in accordance with EPA's current EDR reporting instructions. This should be submitted via e-mail to DEP and EPA at the same time that the hardcopy portions of the application are submitted.			
	☐ Narrative Portion of the Monitoring Plan			
	Text describing, at a minimum, the facility, emissions units, stacks, fuels fired, types of emission controls, monitoring components, monitor site locations, hardware and software component features, hardware components that perform emission calculations, and data flow from output signals of CEMS to final reports, in accordance with 40 CFR 75.53. Include an explanation of any methods and formulas used to determine values such as Maximum Potential Concentration (MPC), Maximum Expected Concentration (MEC), Maximum Potential Flow (MPF), Maximum Emission Rate (MER), span, range, defaults, apportionment strategies, maximum hourly heat input, and any changes from the most recent monitoring plan approved by DEP. In addition, gas-fired and oil-fired units must submit information required under 40 CFR 75.53(f), where applicable.			
	☐ Schematic Diagrams			
	A Stack and Flue Gas Monitoring System Diagram completed in accordance with 40 CFR 75.53(e)(2)(iv) and (v), a Data Flow Diagram documenting the flow of data from the source of the data to the final reports in accordance with 75.53(e)(2)(iii), and a Gas and Oil Fuel Diagram completed in accordance with 40 CFR 75.53(f), if applicable.			
	☐ Net Output Monitoring Documentation			
	Must be completed in accordance with Attachment A of a DEP letter, dated November 20, 2000 that went out to all facilities via e-mail.			
	☐ Gas and Oil Flowmeter Accuracy Documentation (if applicable)			
	Gas-fired and oil-fired units whose fuel flowmeter is not used for commercial billing must submit a description of the 40 CFR Part 75 Appendix D procedure that will be used to certify the flowmeter			

accuracy of 2%. Describe how and where the test will be performed, who will perform it and which

method is being used.



BWP AQ 23 - Prescribed or Alternative Methodologies BWP AQ 24 - Physical or Operational P

Transmittal Number	
Facility ID# (if known)	

Plans Emissions Control Plan		
C. Additional Items (cont.)		
☐ Low Mass Emitter (LME) Applicability Demonstration (if applicable)		
Submit historical calculated and/or projected NOx mass emissions data in accordance with 40 CFR 75.19(a) demonstrating that the unit qualifies as a LME.		
☐ Petitions for Alternative Monitoring (if applicable)		
Copies of all petition requests submitted to EPA and DEP, and EPA approval letters, if received, under 40 CFR 75.70(h).		
BWP AQ 24 submittals must also include:		
☐ Proposed Physical or Operational Changes		
Submit, at a minimum, a description of the proposed modifications to combustion equipment or installation of NOx controls that will be made in accordance with this application.		